



POWERING A
CONNECTED
FUTURE

HUGHES
An EchoStar Company

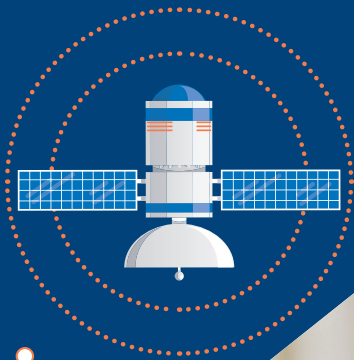
Connecting People, Enterprises and Things Everywhere...

The connected future is here. It's in upstate New Hampshire, where a freelance writer works online at home far from the city. It's in Brazil, where a shop owner sells affordable Wi-Fi and Internet access to rural villagers. It's in the Southwest U.S., where a fast-casual restaurant chain can analyze data to improve the online experience for their customers. It's in a military base in the Middle East, where service members connect with family and

friends half a world away. It's in Africa, where a mobile network operator extends cell service to customers in hard-to-reach places. It's in India, where healthcare providers in towns and villages take online classes taught by experts from major urban clinics. It's in the air, where travelers work or watch the latest movies and news, no matter where they are flying.

Making these connections is what Hughes is all about. We are industry leaders in both networking technologies and services, innovating constantly to deliver the global solutions that power a connected future for people, enterprises and things everywhere.





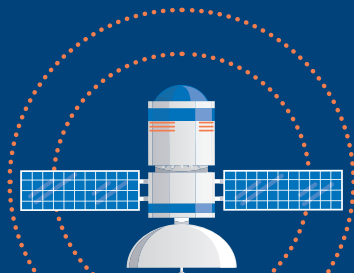
Delivering Essential Broadband Services and Solutions

Largest High-Throughput Satellite Network over the Americas

Powered by JUPITER™ System technology – the next-generation satellite broadband platform from Hughes – the company's fleet of High-Throughput Satellites (HTS) supports a wide range of consumer, small business, enterprise, in-flight and mobile services across two continents. JUPITER 2 / EchoStar XIX is one of the world's highest capacity satellites and, together with JUPITER 1 / EchoStar XVII and the Hughes 65 West and 63 West payloads, provides coast-to-coast coverage of the continental US, Mexico, most of Canada and major parts of Central and South America.

HughesNet® Gen5 is the world's largest high-speed satellite Internet service, delivering more data, more features and more applications to consumers and small businesses across the Americas – including exurban, rural and mountainous areas with limited or no terrestrial broadband.

For large enterprises and governments, the company's HughesON™ managed network services provide complete connectivity solutions, employing an optimized mix of satellite and terrestrial technologies.



HughesNet[®]

- The world's largest satellite Internet service, connecting millions of people across the Americas
- Named best rural Internet service provider

HughesON[™]

- Leading managed network services provider for enterprise and government
- Delivering a comprehensive suite of solutions, including SD-WAN, employing an optimal mix of wireline, wireless and satellite technologies
- Approximately half a million sites connected globally for distributed organizations of all sizes

HUGHES[®]

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- The #1 global VSAT provider, with millions of terminals shipped to customers in more than 100 countries – approximately 50% market share
- The JUPITER System, the world's most widely deployed HTS platform, powers broadband services from leading providers on over 40 satellites, including airborne/maritime/land mobility solutions
- Community Wi-Fi and shared VSAT solutions bring affordable Internet access to over 25 million people who are beyond the reach of terrestrial service
- Satellite backhaul of 2G, 3G, 4G/LTE and 5G and IoT networks expands mobile operator markets in exurban, rural and mountainous areas
- Emergency response, government, civilian and defense agencies depend on Hughes for high-availability and resilient networking solutions in all environments



Millions
Connected Around
the World

Your Trusted Partner for Technology Solutions and Services Globally

Hughes supplies a growing ecosystem of service providers, government organizations and businesses with advanced broadband systems and terminals, mobile satellite systems, handhels and IP data terminals, enabling the delivery of privately operated and branded services and solutions. Customers include leading fixed and mobile telecom operators and service providers worldwide that use Hughes products to offer “broadband everywhere” access for voice, email, file transfers and remote applications such as telemedicine, exploration, marine and aeronautical broadband, newsgathering, fleet operations and emergency management.

Satellite Platform of Choice

- The JUPITER System platform is the *de facto* global broadband standard, delivering high performance for both HTS and conventional satellites, with 300 Mbps UDP/200 Mbps TCP and capable of 16,000 simultaneous TCP sessions

JUPITER 3 Coming Soon

- The JUPITER 3 (designated EchoStar XXIV) Ultra-High Density satellite is currently under construction, with download speeds of up to 100 Mbps, will expand Hughes’ fleet coverage to 80% of the Americas

Constantly Innovating

- Hughes is leading the industry with Artificial Intelligence (AI) and Machine Learning (ML) software technologies for interoperability across spectrum bands and satellite constellations and contributing to global networking standards development, including 5G





Trusted Partner

- Bringing advanced technology solutions to industry-leading providers around the world



Innovating to Solve Tomorrow's Challenges Today



Robust Solutions for Disaster Preparedness and Response

- 911 and critical network backup plus emergency connectivity for first responders, government workers and citizens in need

Expanding Cellular and Wi-Fi Services to People Everywhere

- Cellular backhaul by satellite and satellite-enabled community Wi-Fi hotspots help operators reach new markets and serve more customers



High-Performance Aero and Mobility Solutions

- Leading provider of aero broadband solutions for airlines around the world, including Air Canada, Air France, flydubai, Iceland Air, Norwegian Air Shuttle, Southwest Airlines and Spirit Air

Military Connectivity Solutions That Support the Mission

- Powering beyond-line-of-sight communications to deliver real-time HD video on UAVs and helicopters
- Leveraging AI for resilient, interoperable Department of Defense SATCOM architectures
- Enabling remote Broadband Global Area Network (BGAN) connectivity and Machine-to-Machine applications

The Hybrid Network of the Future

- Marrying new generations of satellite with both terrestrial fixed and wireless technologies such as 5G
- Building partnerships across the expanding spectrum of technologies – terrestrial and GEO and NGSO satellite – to power the connected future

Global Office Locations

Headquartered outside Washington, DC, in Germantown, Maryland, USA, Hughes Network Systems, LLC (HUGHES) operates sales and support offices worldwide and is a wholly owned subsidiary of EchoStar Corporation (NASDAQ: SATS), a premier global provider of satellite operations.

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Consumers, businesses, governments and communities around the world benefit from the connected experiences enabled by Hughes technologies and services.

*To learn more, visit our website at [hughes.com](https://www.hughes.com)
or follow us on social media.*



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